

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/050923

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L27/24 H01L45/00 G11C11/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5 789 758 A (REINBERG ET AL) 4 August 1998 (1998-08-04) column 4, line 59 - column 5, line 40; figure 2	1,2,8-15 4-7
X A	US 5 933 365 A (KLERSY ET AL) 3 August 1999 (1999-08-03) column 5, line 45 - line 65 column 2, line 1 - line 8 column 6, line 14 - line 18 column 18, line 1 - line 11 figure 1a	1-3,8,9, 14,15 4-7
A	US 2003/142578 A1 (HSU SHENG TENG ET AL) 31 July 2003 (2003-07-31) paragraph [0019] - paragraph [0023]; figures 1,3	1-15

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

24 May 2005

Date of mailing of the international search report

03/06/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/179633 A1 (KRIEGER JURI H ET AL) 25 September 2003 (2003-09-25) abstract; figures 1A,1B -----	1-15
A	US 5 912 839 A (OVSHINSKY ET AL) 15 June 1999 (1999-06-15) column 19, line 3 - line 34 abstract -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050923

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5789758 A	04-08-1998	US 5920788 A	06-07-1999
US 5933365 A	03-08-1999	AU 8148298 A	04-01-1999
		CA 2269857 A1	23-12-1998
		DE 69827598 D1	23-12-2004
		EP 0938731 A1	01-09-1999
		RU 2214009 C2	10-10-2003
		TW 421893 B	11-02-2001
		WO 9858385 A1	23-12-1998
US 2003142578 A1	31-07-2003	US 2003003674 A1	02-01-2003
		US 2003206481 A1	06-11-2003
		US 2004108528 A1	10-06-2004
		US 2004170048 A1	02-09-2004
		US 2005052942 A1	10-03-2005
		US 2005083757 A1	21-04-2005
		US 2005054138 A1	10-03-2005
		JP 2003068984 A	07-03-2003
		TW 571348 B	11-01-2004
		US 2003203585 A1	30-10-2003
		US 2003003675 A1	02-01-2003
US 2003179633 A1	25-09-2003	WO 03017282 A1	27-02-2003
		BR 0117103 A	10-08-2004
		CN 1543652 A	03-11-2004
		EP 1434232 A1	30-06-2004
		JP 2005500682 T	06-01-2005
		US 2003053350 A1	20-03-2003
		US 2003155602 A1	21-08-2003
		US 2003173612 A1	18-09-2003
		US 2003178667 A1	25-09-2003
		US 2004026714 A1	12-02-2004
		US 2004246768 A1	09-12-2004
		US 2004159835 A1	19-08-2004
		US 2004160801 A1	19-08-2004
US 5912839 A	15-06-1999	AU 4821999 A	10-01-2000
		EP 1097456 A1	09-05-2001
		WO 9967790 A1	29-12-1999
		US 6141241 A	31-10-2000